

POPOV-CHERKASOV, Igor' Nikolayevich; SHAPOCH, I.L., red.; LABAZINA,
S.N., red. izd-va SHIBKOVA, s.t.e., tekhn. red.

[Work compensation for workers and employees in the forest
economy of the U.S.S.R.] Voznagrazhdenie za trud rabochikh i
sluzhashchikh v lesnom khozaiistve SSSR. Moskva, Goslesbum-
izdat, 1962. 162 p. (MIRA 16:2)

(Wages—Foresters)

SOSEDOV, N.I.; SHABOLENKO, V.P.

Nature of the action of ionizing radiations on starch sols
and gels. Biokhim. zер. i khlebopech. no.7:195-201 '64.
(MIRA 17:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna.

GORIAYEV, M.I.; DEMBITSKIY, A.D.; SHABOLINA, V.I.

Increasing the efficiency of columns in preparative gas-liquid chromatography. Izv. AN Kazakh.SSR.Ser.khim.nauk 15 no.3:84-85
J1-Ag '65. (MIRA 18:11)

1. Submitted February 27, 1965.

SHABOLKIN, L.M.; SHIRINKIN, A.D.; IVANOV, Yu.I.

Towing rafts with rigging of increased holding force. Rech.
transp. 18 no.5:17-18 My '59. (MIRA 12:9)
(Lumber--Transportation) (Towing)

SHABOLKIN, L.M., inzh.; APANASENKO, I.S., inzh.

Hydraulic flow stimulators (flow builders). Der.prom. 10
no.12:24-25 D '61. (MIRAL4:12)

1. Institut Uralgiprolesbumprom.
(Hydraulic)
(Perm--Woodworking industries---Equipment and supplies)

APANASENKO, I.S.; SHABOLKIN, L.M.

Production line for refining woodpulp. Bum. prom. 36 no.10:11
O '61. (MIRA 15:1)

1. Ural'skiy gosudarstvennyy proyektyny institut "Uralgiproles-
bumprom".
(Papermaking machinery)

SHABOLTAS, B.B.; DAVYDOV, V.V.; KORENDYASEV, V.V.; MITRAKOV, V.I.

Use of chemical solutions in sinking an inclined shaft.
Shakht. stroi. 8 no.2:29-30 F '64. (MIRA 17:3)

1. Aleksandriyskiy ugol'no-gornorudnyy kombinat (for
Shaboltas). 2. Institut gornogo dela imeni A.A. Skochinskogo
(for Davydov, Korendyasev, Mitrakov).

SHABONOV, A. N.

IA 70160

USSR/Medicine - Public Health
Medicine - Otorhinolaryngology

Mar/Apr 1948

"The Tasks of Soviet Public Health in the Development
of Otorhinolaryngological Service," A. N. Shabonov,
Deputy Minister of Pub Health USSR, 4 pp

"Vest Otc-Rino-Laringol" Vol I, No 2

Presents inaugural address to medical conference. In-
cludes figures showing the incidence of otorhinolaryn-
gological diseases in the USSR. At present there are
only 2,404 ear, nose, and throat specialists in the
Soviet Union. It is estimated that 4,000 are re-
quired.

70160

SHABONOV N.S.

SNT/128-30-10-10/24

24(5), 28(1)
Authors:
Postnyshov, V.M., Candidate of Technical Sciences, Salnikov, V.V.
Gritopolsky, Yu.I., Candidate of Technical Sciences, and Shabonov, N.S., Engi-

neers

TITLE: Conveyor Mould Machine for the Casting of Mill Balls**PERIODICALS:** Litovsky proizvodstvo, 1959, Nr 10, PP 30-31 (USSR)**ABSTRACT:**

The authors present a technology for mass production of mill balls, which has been developed by the machine-building research institute (Scientific-technological machine-building research institute of the Scientific Research Institute for Technology of Machine Building of the Ministry of Machine-Building Industry) together with the Kater-Yevansky (Kater-Yevansky Mechanical Factory) and Chelyabinsk Sumnerkhodzavod (Chelyabinsk Sumnerkhodzavod (Kazav-krasnoye Foundry-Mechanical Factory)). This technology is based on a conveyor mould machine with vertical plane and its continuous printing (Fig. 1). The basic part of the machine is a vertical closed chain (Fig. 1), on which the moulds are fastened and transported by special rolls (Fig.). The chain moves its travelling part (Fig.) and a fixed part (Fig.). The chain moves its travelling part (Fig.) and a fixed part (Fig.). The metal is poured with the pouring plate on the frame (Fig.). The metal is poured with the pouring plate on the frame (Fig.).

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form (Fig.) onto that section of the chain which has the maximum length (Fig.). At the present time, complete mechanization of mill ball production is being worked on. There are 2 photographs.

Card 2/2

SHABORDIN, V.N., starshiy elektromekhanik

Crystal controlled auxiliary generator. Avtom., telem.i sviaz'
6 no.5:38 My '62. (MIRA 15:4)

1. Ryazhskaya distantsiya signalizatsii i svyazi Moskovskoy dorogi.
(Oscillators, Electron-tube)

SHABORDINA, A.T.

Practical agriculture for students on farm for training and
experimentation. Politekh. obuch. no.9:29-33 S '58. (MIRA 11:10)

1. Ryazanskiy institut--overshenstvovaniya uchiteley.
(Ryazan Province--Agriculture--Study and teaching)

SHOSTAKOVICH, D.; CHULAKI, M.; PEYKO, N.; BOGOSLOVSKIY, Nikita;
VOLKONSKIY, A.; ANDREYEV, N., akademik; SKRYABINA, A.N.;
SHABORKINA, A.

More discussion on the photoelectronic music synthesizer.
Znan.sila 35 no. 11:28 N '60. (MIRA 13:12)
(Electroacoustics)

AID P - 4695

Subject : USSR/Aeronautics - Engine starting mechanism

Card 1/1 Pub. 58 - 7/17

Author : Shabota, A.

Title : How to use properly the starting mechanism

Periodical : Kryl. rod., 5, 7, My 1956

Abstract : The article outlines the principles of construction and the functioning of two types of electrically operated valves serving for admission of air into aircraft engines for starting them. The valves are said to have been installed on board Ya-18 planes to facilitate the setting in motion of their M-11 FR engines. Some recommendations are also made as to the proper use of the device. 3 designs.

Institution : None

Submitted : No date

AID P - 5535

Subject : USSR/Aeronautics - Electric equipment of aircraft

Card 1/1 Pub. 58 - 9/15

Author : Shabota, A.

Title : The wiring of the Yak-18

Periodical : Kryl. rod., 12, 14-15, D 1956

Abstract : The author offers some practical advices as to the ways of testing the reliability of the wiring of the Yak-18, and recommends practical methods of repair. The article is addressed to the technicians charged with the maintenance of the planes. 4 drawings.

Institution : None

Submitted : No date

SHTBUTA, A

St. Petersburg

85-58-1-14/28

AUTHOR: Vetrinskiy, V. and Shabota, A.

TITLE: The Yak-11 Plane and Its Operation (Samolet Yak-11 i ego eksploatatsiya)

PERIODICAL: Kryl'ya rodiny, 1958, Nr 1, pp 16-17 (USSR)

ABSTRACT: The authors state that the Yak-11 2-place trainer, designed by A. S. Yakovlev, has been used extensively by DOSAAF organizations in recent years for pilot training purposes. They give a detailed technical description of the Yak-11 and compare it with the Yak-18, noting its greater speed and ability to perform all acrobatic maneuvers. The adjustable oil radiator and other characteristics that distinguish it from the Yak-18 are described. Instructions

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85-58-1-14/28

The Yak-11 Plane and Its Operation

are given for the proper care and maintenance of different parts of the plane. There are 3 diagrams of the lubricating, fuel and pneumatic systems, a sketch of the student's cockpit, and a cutaway sketch of the whole plane.

AVAILABLE: Library of Congress

Card 2/2

SHABOTA, A.

Operation of electric power sources in YAK-18 and YAK-11 airplanes. Kryl.rod. 10 no.2:20-21 F '59. (MIRA 12:5)
(Airplanes--Electric equipment)

SHABOTENKO, V. I.

Phase meter for determining phase relationships in a ~~DER~~ relay.
Avtom.telem.i sviaz' 3 no.10:29-30 0 '59. (MIRA 13:2)

1. Starshiy inzhener laboratorii signalizatsii i svyazi Yugo-Zapadnoy dorogi.
(Railroads--Electronic equipment)

SHABOTENKO, V.I.

Circuit for switching-on the red light on the intermediate
signal lights at crossings. Avtom., telem. i sviaz' 5 no.10
41-42 0 '61. (MIRA 14:9)

1. Zamestitel' nachal'nika 1-y Kiyevskoy distantsii signalizat-
sii i svyazi Yugo-Zapadnoy dorogi.
(Railroads--Signaling)

KUPIN, N.V., inzh.; SHABOVTA, V.V.

Special electrode holder for spot welding machines. Svar.
(MIRA 17:5)
proizv. no.11:33-34 N'63.

FOMICHEV, A., agronom; SHABRANSKIY, V., inzh.

Using combines with a pick-up attachment for harvesting seed plants
of sugar beets. Tekh.v sel'khoz. 21 no.8:24-35 Ag '61.

(MIRA 14:7)

1. Ukrainskaya mashinoispytatel'naya stantsiya.
(Sugar beets—Harvesting)

GOLOVANOV, A.N. [Holovanov, A.N.]; SHABRANSKIY, V.A. [Shabrans'kyi, V.A.]

Growing sugar beets with minimal expenditures. Mekh. sili'.
hosp. 14 no.3:21-22 Mr '63. (MIRA 17:1)

1. Zaveduyushchiy laboratoriyye Ukrainskoy mashinoispytatel'noy
stantsii.

SHABRIN, A.N. [Shabrin, A.M.]

Turbulent characteristics of processes in the case of unsteady motion. Dop. AN URSR no.8:1030-1034 '63. (MIRA 16:10)

1. Institut gidrologii i gidrotekhniki AN UkrSSR. Predstavлено
академиком AN UkrSSR G.I.Sukhomelom [Sukhomel, H.I.].
(Turbulence) (Motion)

SHABRIN, A.M. [Shabrin, A.M.]

Velocity structure of open streams in unsteady motion.
Dop. AN UkrSSR no.11:1448-1451 '63.

(MIRA 17:12)

1. Institut gidrologii i gidrotekhniki AN UkrSSR.

SHABROVA, A.M., mladshiy nauchnyy sotrudnik

Use of yarns made from polynosic fibers for the manufacture
of knit goods. Tekst. prom. 24 no.10:54-56 O '64.

(MIRA 17:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut trikotazhnay
promyshlennosti (VNIITP).

SHABRIN, M.G.; SHAPIRO, S.N.

Treatment of trichomonal colpitis with preparations of Laminaria.
Akush.i gin. no.2:81-83 Mr-Ap '54. (MIRA 7:6)

1. Tikhookeanskiy nauchno-issledovatel'skiy institut rybnogo
khozyaystva i okeanografii. (Vagina--Diseases) (Algae)

PODKOVIN, G.I.; SHABOTIKOV, V.G.

Unit for the mechanized preparation of graphite lubricants.

Pats. predl. na gov. elektrotransp. no.9:87-83 '64.

(MIRA 18:2)

I. Sluzhba puti tramvayno-trolleybusnogo upravleniya Leningrada.

ACC NR: AP6033260

SOURCE CODE: UR/0109/66/011/010/1872/1875

AUTHOR: Shabrov, A. A.

ORG: none

TITLE: Some peculiarities of directional properties of unsymmetrically truncated parabolic antennas

SOURCE: Radiotekhnika i elektronika, v. 11, no. 10, 1966, 1872-1875

TOPIC TAGS: parabolic antenna, antenna ~~directional-pattern~~ directivity

ABSTRACT: The computer-calculated results are reported of an investigation of truncated-parabolic-antenna directional patterns; a three-dimensional problem was solved; a circular aperture was considered. The calculation results are claimed to have been corroborated by experiments. These peculiarities are reported: (1) The directional pattern in the xFy-plane does not reach the zero

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ACC NR: AP6033260

level between the major lobe and the adjacent side lobes; (2) The antenna maximum gain lies in the direction turned toward negative β -angles; the deviation from the zero-direction is greater for higher exciter directivities; (3) As the side-lobe level increases, these lobes become fused with the major lobe, making the latter wider at low levels; (4) It is recommended that the exciter be oriented toward the reflector center. Other conclusions are given. Orig. art. has: 5 figures and 4 formulas.

SUB CODE: 09 / SUBM DATE: 10Sep65 / ORIG REF: 004

Card 2/2

SHABROV, A. N.

36659. Shabrov, A.N. Neustanno povysiat' kachestvo zhilischnogo stroitel'stva.
Arkhitektura i stroye leningrada, 1949, sb. 2, c. 13-20

SC: Letopis' Zhurnal'nykh Statey, Vol. 50, Moskva, 1949

SHABROV, G.

Emulsion thinner must be used widely. Izobr.i rats. no.4:28-31
Ap '60. (MIRA 13:6)
(Thinner (Paint mixing))

CHUMOV, S. I.

"Significance and Tasks of Mining Geology in the Coal Industry," *Ugol'*, No. 3, 1949.
Mining Eng'r. Geologist.

SHABROV, G.I., inzhener.

Deep drainage and water regime of extensive peat deposits.
Turf.prom.32 no.8:5-6 '55. (MLRA 9:4)

1.Giprogaztepprom.
(Peat bogs) (Water, Underground)

SHABROV, G. T.

USSR/Medicine - Animals - Diseases
Medicine - Veterinary Medicine

Jan 1948

"Application of Sulfantrol (C-55) in Paratyphoid Articular Fracture in Stallions,"
A. V. Deryabina, Vet; G. T. Shabrov, Vet, Chair of Epizootology, Chkalov Agr Inst
imeni A. A. Andreyev, 1 p

"Veter" No 1

Experiments show that sulfantrol is five times more effective than other types of
chemical preparations. However, it is effective only if administered per os. Intravenous
injection of a 4% solution did not show results.

PA 61T57

(another translation same except paratyphoid-jointbreak in colts, Vet. #1, p 17 1948)

SHABROV, N.A.

"Sofilia"-type tank vessel. Biul.tekh.-ekon.inform.Gos.nauch.-issl.
inst.nauch.i tekhn.inform. 16 no.8:61-62 '63. (MIRA 16:10)

KULEV, L. P. [deceased]; SAL'SKIY, V. A.; LEBEDEV, A. K.; SHABROV, V. P.

Ozonolysis of a low-grade technical phenanthrene. Preparation of
3,2-dimethoxy-4,5,6,7-dibenzo-1,2-dioxocyclooctane and 2'-
formyldiphenyl-2-carboxylic acid. Zhur. VKHO 7 no. 5:599-600
(MIRA 15:10)
62.

i. Tomskiy politekhnicheskiy institut.

(Phenanthrene) (Ozonization)

SHABROVA, L.A.; STEPNOVA, G.M.

Acyl derivatives of 4-methylaminoantipyrine as possible antiphlogistics.
Zhur. VKHO 9 no. 2:240 '64. (MIRA 17:9)

1. Tomskiy politekhnicheskiy institut imeni Kirova.

PROKOF'YEV, M.A.; SHABROVA, Z.A.; ANTONOVICH, Ye.G.

Synthesis of certain halogenoacetyl and aminoacetyl derivatives
of 2-aminopyrimidine and guanine. Zhur. ob. khim. 25 no.2:397-401
F '55. (MLRA 8:6)

1. Moskovskiy gosudarstvennyy universitet
(Pyrimidine) (Guanine)

SHABRYGIN, A.I.

"On the Dehydration of Isoborneol By the Xanthogenic Method" Zhur. Obshch. Khim. 10 No. 9, 1940, Lab. of Organic Chemistry, Moscow Inst. of Fine Chemistry. Technol. Received 27, Oct. 1934.

Report U-1627, 11 Jan. 52

SHIBKO, N.A.; NEMIROVSKIY, S.A.; SHABSHAYEVICH, M.L.; RAKHLEVSKIY,
I.A.

[Systems for the automation of pasteurization and cooling
plants] Sistemy avtomatizatsii pasterizatsionno-okhladitelei'-
nykh ustanovok. Moskva, TSentr. in-t nauchno-tekhn. infor-
matsii pishchevoi promyshl., 1963. 61 p. (MIRA 17:4)

VAYNERG, Arkadiy Yakovlevich, kand. tekhn. nauk; BRUSILOVSKIY,
Leonid Petrovich; TEPMAN, L.M., retsentent; IRZHEVSKIY,
V.F., retsentent; SHUVALOV, V.N., retsentent;
SHAESHAYEVICH, M.L., spets. red.; KORENT, L.V., red.

[Automation of technological processes in the dairy industry] Avtomatizatsiya tekhnologicheskikh protsessov v
molochnoi promyshlennosti. Moskva, Pishchevaiia promysh-
lenost', 1964. 246 p. (MIRA 18:3)

1. Leningradskiy tekhnologicheskiy institut khodil'noy
promyshlennosti (for Shuvalov).
2. Vsesoyuznyy nauchno-
issledovatel'skiy i eksperimental'nyy institut proizvod'-
stvennogo mashinostroyeniya (for Shabshayevich).
3. Institut Pishchepromavtomatika (for Irzhevskiy).

KIM, G.F., otv.red.; VAYNTSVAYG, N.K., red.; LEZIN, V.V., red.;
SAMSONOV, G.Ye., red.; TYAGAY, G.D., red.; SHABSHINA F.I.,
red.; ANGORA, T.M., red.izd-va; GAMAZKOV, K.A., red.izd-va;
TSVETKOVA, S.V., tekhn.red.

[Southern Korea; economic and political conditions from 1945
through 1958] Iuzhnaia Koreia; ekonomicheskoe i politicheskoe
polozhenie, 1945-1958 gg. Moskva, Izd-vo vostochnoi lit-ry.
1959. 270 p. (MIRA 13:2)

1. Akademiya nauk SSSR. Institut vostokovedeniya.
(Korea, South--Economic conditions)
(Korea, South--Politics and government)

SHABSHINA, Fanya Isaakovna; KOLOMIYTSEV, V., red.; KLIMOVA, T.,
tekhn.red.

[Fast as the Korean legendary horse; in the new Korea] So sko-
rost'iu "chkhonlima;" v novoi Koree. Moskva, Gos.izd-vo polit.
lit-ry, 1960. 85 p. (MIRA 14:1)
(Korea, North--Economic conditions)
(Korea, North--Description and travel)

SHABSHINA, L.V.

Physics evening dedicated to the life and work of M.V.Lomonosov.
Fiz.v shkole 21 no.4:44-49 Jl-Ag '61. (MIRA 14:10)

1. 328-ya srednyaya shkola, Moskva.
(Lomonosov, Mikhail Vasil'evich, 1711-1765)
(Physics--Study and teaching)

SHABSHINA, L. V.

Studying the great program of the development of communism during
the teaching of physics. Fiz. v shkole 22 no.4:19-29 Jl-Ag '62.
(MIRA 15:10)

1. 312-ya odinnadtsatiletnyaya shkola, Moskva.

(Physics--Study and teaching)
(Construction industry)

MONAKHOV, N.I., inzh., glavnnyy red.; TURLANSKIY, M.A., inzh., zam. glavnogo red.; LAZAREV, V.I., inzh., red.; SHABSYUK, S.T., red.; KHAVIN, B.N., red.izd-va; RUDAKOVA, N.I., tekhn.red.

[Collection No.27 of consolidated cost indexes of water-supply and sewer structures and buildings to be used in the revaluation of capital assets] Sbornik no.27 ukrupnennykh pokazatelei stoimosti zdanii i sooruzhenii vneshnego vodosnabzheniya i kanalizatsii dlia pereotsenki osnovnykh fondov. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialeam, 1959. 197 p. (MIRA 12:8)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroytel'stva.
(Water-supply engineering) (Sewage)

Shabudin, A.F.

C-3

USSR/Nuclear Physics

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 11093

Author : Meshcheryakov, M.G., Zrelov, V.P., Neganov, B.S.,
Vzorov, I.K., Shabudin, A.F.

Inst : Institute of Nuclear Problems, Academy of Sciences, USSR

Title : Energy Spectra of Positive Pions in the pp -> np
Reaction at 556 and 657 Mev.

Orig Pub : Zh. eksperim. i teor. fiziki, 1956, 31, No 1, 45-54

Abstract : The magnetic analysis method was used at an angle of 24°
relative to the proton beam to measure the spectra of the
positive pions of the pp -> np reaction at collision
energies of 556 and 657 Mev. For an angle of 45°, in the
center of mass system, the ratio of the differential cross
sections of the reaction pp -> np amounts to
 $(d\sigma/d\Omega)_{657}/(d\sigma/d\Omega)_{556} = 2.2:1$. At both

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USSR/Nuclear Physics

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Abs Jour : Ref Zhur - Fizika, No 5, 1957, 11093

collision energies, an average of 80% of the accessible energy is consumed in the formation of a positive pion in one elementary act of the $pp \rightarrow np \pi^+$ reaction. Comparison of the measured spectra with the energy distributions corresponding to the statistical weights of the final states, calculated under the assumption that the formation of mesons takes place directly, has shown that in the low-energy portion of the positive-pion spectra the matrix element that connects the initial and final states of the $pp \rightarrow np \pi^+$ reaction increases linearly with the momentum of the meson and for equal values of momentum it has approximately the same magnitude for both collision energies.

Card 2/2

SHABUDIN, A.F.

C-3

USSR/Nuclear Physics

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 11094

Author : Meshcheryakov, M.G., Vzorov, I.K., Zrelov, V.P.,
Neganov, B.S., Shabudin, A.F.

Inst : Not given

Title : Formation of Charged Mesons on Beryllium and Carbon by
Protons with 660 Mev Energy.

Orig Pub : Zh. eksperim. i teor. fiziki, 1956, 31, No 1, 55-62

Abstract : The method of magnetic analysis was used to measure the
energy spectra of positive and negative pions, emitted
in the $p + Be$ and $p + C$ collisions at an angle of 240° re-
lative to the beam of the 660 Mev protons. The spectra
of the positive pions have clearly pronounced maximum at
210 Mev in the laboratory system, while the number of nega-
tive pions changes insignificantly in the range from

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USSR/Nuclear Physics

C-3

Abs Jour : Ref Zhur - Fizika, No 5, 1957, 11094

60 to 250 Mev. It was observed that the probability of formation of positive pions in collision of protons with the protons bound in the beryllium and carbon nuclei, is at least one third the probability of formation on free protons. The maximum in the spectrum of the positive pions in the center of mass system is located near 100 Mev. The ratio of the positive and negative pion yields for beryllium and carbon was determined over the entire extent of the spectra.

The ratio total yields of the positive and negative pions for these elements is 5.3 ± 0.6 and 7.0 ± 0.8 respectively.

Card 2/2

SUBJECT USSR / PHYSICS CARD 1 / 2 PA - 1424
AUTHOR MESCHERJAKOV, M.G., NEGANOV, B.S., VZOROV, I.K., ZRELOV, V.P., SABUDIN, A.F.
TITLE The Magnetic Analysis of the Reactions $pp \rightarrow np\pi^+(I)$, $pp \rightarrow pp\pi^0$ (II)
and $pp \rightarrow d\pi^+(III)$ at an Energy of 660 MeV.
PERIODICAL Dokl. Akad. Nauk, 109, fasc. 3, 499-502 (1956)
Issued: 9 / 1956 reviewed: 10 / 1956

For the purpose of the determination of further data concerning the character of the production processes of positive pions on the occasion of (p-p) collisions the authors studied the momentum spectra and angular distributions of the secondary protons emitted on the occasion of the reactions I and II at 660 MeV. Independent interest was caused by the possibility of separating (for the purpose of a subsequent determination of their degree of polarization) the deuterons produced on the occasion of reaction III from the total flux of secondary particles. In connection with some further measurements such an experiment permits a complete phenomenological analysis of reaction III including the determination of the ratio between the intensities of the two possible transitions

$^1S_0 \rightarrow ^3S_1$ and $^1D_2 \rightarrow ^3S_1$, which correspond to the emission of mesons in the p-state. The experiments were carried out with the 6-meter synchrocyclotron of the Institute for Nuclear Problems of the Academy of Science of the USSR. The energy of the protons was (660+3) MeV and the half width of the proton spectrum was + 5 MeV. The scheme and the setting up of the spectrometer are then discussed.

PA - 1424

Dokl.Akad.Nauk,109, fasc.3, 499-502 (1956) CARD 2 / 2

The relative momentum spectrum of the particles was measured by changing the magnetic field strength. The effect on hydrogen was determined from the difference of the yields of polyethylene- and carbon targets. The momentum spectrum of secondary protons and deuterons determined through an angle of 7° is shown in a diagram. The most intense peak at $Hq = 4260 \cdot 10^3$ Gauss.cm corresponds to the protons elastically scattered on protons through an angle of 17° (in the center of mass system). The peaks at $Hq = 4520 \cdot 10^3$ and $Hq = 2880 \cdot 10^3$ Gauss.cm correspond to the deuterons of reaction III scattered under 43° and $153,5^\circ$ (in the center of mass system) respectively. The experimental and the computed location of the deuteron peaks with respect to the peak of the elastically scattered protons differ by less than 1%.

The continuous spectrum belongs to the secondary protons of the reactions I and II. Its upper limit is in agreement with the computed value (for the investigated reactions $3560 \cdot 10^3$ and $3590 \cdot 10^3$ Gauss.cm respectively). The spectrum of the secondary particles produced on the occasion of (p-p) collisions was also obtained at an angle of 12.2° towards the primary bundle. In this case the deuteron peaks were about $Hq = 3220 \cdot 10^3$ and $Hq = 3950 \cdot 10^3$ Gauss.cm. The form of the momentum spectrum of the secondary protons changes considerably with angular distribution. The protons with more than 250 MeV/c are emitted mainly towards the front and the rear, but protons with smaller momenta have a nearly isotropic distribution.

INSTITUTION: Institute for Nuclear Problems of the Academy of Science in the USSR.

ANATOLY V. KALININ, V. V. KARABELOV, V. V. KERZHNIKOV, V. V. KRETSCHMER, V. V. KURANOV, V. P.

Energy spectra of $\eta^{\prime\prime}$ resonances in the pp-pp $\eta^{\prime\prime}$ reaction at 556 and 657 MeV (II/57a)
Magnetic analysis of the pp-pp $\pi^{\prime\prime}$ (I) pp-pp $\eta^{\prime\prime}$ (II) and pp-pp $\eta^{\prime\prime}$ (III) reactions at the energy of 660 MeV (II/57b)

CERN-Symposium on High Energy Accelerators and Pion Physics.

Geneva 11-23 June 56
L.H. Branch 75

SARIBIN, A.I., KILBY, E.H., LIPSETT, R.W., MURRAY, D.P., TAYLOR,

Charged pion production by 660 MeV protons on Be and C
(II/47)

CERN-Symposium on High Energy Accelerators and Pion
Physics.

Geneva 11-23 June 95
In Branch #5

Nuclear Structure [unclear]

AZHGIROV, L., VZOROV, I., IRELOV, V., MESHCHERYAKOV, M., NEGANOV, B., and SHABUDIN, A.

"Forcing Deuterons from Nuclei of Li, Be, C, and O by 675 Mev Protons,"
(Vybivaniye Detronov Iz Yader Li, Be, C, i O, Protonami s Energiyey v 675
Mev), USSR, 1957. Reported 17 May 1957 at the Second Session of the Scientific
Council of the United Institute of Nuclear Research.

Translation U-3,055,593, 22 Jan 58

SHABUDIN, A.F., MESHCHERYAKOV, M.G., NEGANOV, B.S., VZOROV, I.K., ZRELOV, V.P.

"Magnetic Analysis of the Reactions $pp \rightarrow np\pi^+$ (I), $pp \rightarrow pp\pi^0$ (II)
and $pp \rightarrow d\pi^+$ (III) at an Energy of 660 MeV," paper presented at CERN
Symposium, 1956, appearing in Nuclear Instruments, No. 1, pp. 21-30,
1957

Shabudin, A.F.

4600 17
π⁺ MESON ENERGY SPECTRUM FOR pp → np π⁺ REACTION AT 636 AND 657 MEV. M. G. Bisechetsukov, V. P. Zrelov, B. S. Neganev, I. K. Voroy, and A. F. Shabudin (Academy of Sciences, USSR). Soviet Phys. JEVT 1, 80-7 (1957) Feb.

The π⁺ spectrum for the reaction pp → npπ⁺ was studied at bombarding energies of 636 and 657 Mev. By magnetic analysis at an angle of 24° to the proton beam, the ratio of the differential cross section at 45° (measured in the center-of-mass system) for the two energies proved to be $(d\sigma'/d\omega')_{657} / (d\sigma'/d\omega')_{636} = 2.2:1$. For both bombardment energies, approximately 80% of the available energy is spent in the formation of the π⁺ meson in a single elementary act. A comparison of the measured spectrum with the energy distribution corresponding to the statistical weights of the final states computed under the assumption that the meson is formed directly indicated that in the low energy part of the spectrum the matrix element associated with the initial and final state for the reaction varies linearly with meson momentum and has approximately the same value at identical momenta for both bombarding energies. (auth)

Shabudin, A. F.

4601

THE PRODUCTION OF CHARGED MESONS BY THE BOMBARDMENT OF BERYLLIUM AND CARBON WITH 620 MEV PROTONS. M. G. Mescheriakov, I. B. Vodov, V. P. Zrelov, B. S. Neganov, and A. F. Shabudin (Academy of Sciences, USSR). Soviet Phys. JETP 4, 79-85 (1957) Feb.

The energy spectra of positive and negative pions released in $p + Be$ and $p + C$ collisions was measured with a magnetic spectrometer at an angle 24° to a 660-Mev proton beam. The π^+ meson spectrum has a clearly defined maximum at an energy of about 210 Mev in the laboratory system, whereas the spectrum for the π^- mesons varied only slightly over a range from 60 to 250 Mev. The probability of positron

pion formation when protons collide with protons bound in Be and C nuclei was discovered to be at least three times less than where protons act on free protons. The maximum of the π^+ meson spectrum in the center-of-mass coordinate system is situated near 100 Mev. The ratio of positive to negative pion emission was determined for Be and C over the whole spectral range. The ratio of total emission of positive to negative pions for these two elements is equal, respectively, to 5.3 ± 0.6 and 7.0 ± 0.8 . (auth)

AUTHOR:

Azhgirey, L.S., Vzorov, I.K., Zrelov, V.P.,
Meshcheryakov, M.G., Neganov, B.S., Shabudin, A.F.

56-5-19/46

TITLE:

The Knocking Out of Deuteron from the Nuclei Li, Be, C and O by
675 MeV Protons (Vybivaniye deutronov iz yader Li, Be, C i O
protonami s energiyey 675 MeV)

PERIODICAL:

Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol. 33, Nr 5,
pp. 1185-1195 (USSR)

ABSTRACT:

With the help of the magnetical analysis below $7,6^\circ$, with respect
to the primary proton ray, the momentum spectrum of the charged
particle was recorded which is produced when deuterium, lithium,
beryllium, carbon and oxygen are bombarded by 675 MeV protons. The
occurrence of deuteron groups with an energy of ~ 600 MeV was ob-
served for all five elements. In the case of deuterium the fast
deuterons result from the elastic scattering of the protons by
deuterons. In all other cases the production mechanism of the reac-
tion must be ascribed to $p + (Z, A) \rightarrow d + p + (Z - 1, A - 2)$.
These reactions, therefore, correspond to the scattering of the
protons by the quasi-deuteron groups within the target nucleus.
The following differential cross sections were measured:

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56-5-19/46

The Knocking Out of Deuteron from the Nuclei Li, Be, C and O by 675 MeV
Protons

$$\left(\frac{d\sigma}{d\omega} \right) \text{ in mb/ster.}$$

d + p	0.55 ± 0.12
Li + p	2.9 ± 0.6
Be + p	2.2 ± 0.5
C + p	3.7 ± 0.8
O + p	4.6 ± 1.0

For the nuclei Li, Be, C and O the average motional energy of the quasideuteron groups could be estimated at 8, 11, 14 MeV. In the highly energetic part of the spectra no occurrence of tritium of importance could be observed. From the data obtained by experiment the conclusion may be drawn that interaction processes of three particles occur, which are connected with a great transfer of momenta. There are 6 figures, 3 tables, and 23 references, 4 of which are Slavic.

ASSOCIATION: United Nuclear Research Institut (Ob"yedinennyj institut yadernykh issledovaniy)

SUBMITTED: June 1, 1957

AVAILABLE: Library of Congress

Card 2/2

SOT/56-16-6-4/66
2(1)

Ahangirov, L. S., Yazonov, I. N., Zrakov, V. P., Meshcheryakov,
M. G., Begunov, B. S., Syntsov, R. M., Shabudin, A. P.
Interaction Between Protons and Atomic Nuclei at Energies of
660 Mev and the Intranuclear Distribution of the Nucleons
of the (p, p'-n) and (p, p'-d) Reactions. Journal of Nuclear
Physics (Zaistvennyye protony o atomicheskikh yadernykh issledovaniyakh)
energiyu 660 Mev i vnutriyadernoye raspredeleniye impulsov
nukleonov)

PERIODICAL: Zhurnal eksperimentalnoi i teoreticheskoy fiziki, 1955,
Vol. 36, No. 6, pp. 1631 - 1639 (USSR)

INSTRUCT: In paper from theoretical discussions, this very detailed paper
gives all data with the momentum distribution in quasi-plastic
proton-nucleon collisions, and gives a detailed description
of the experimental data carried out as well as a great number of
experimental data concerning the angular distributions and
energy spectra of secondary particles (mainly protons with
energies of 22-60 Mev) emitted at angles of 7°, 10°, 24°
and 30° in reactions between 660 Mev protons and nuclei of
Be, C, Cu and U. Table 3 gives for all 4 elements the $d\sigma/d\Omega$
measured for 8 different emission angles between 7° and 40°.

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Thus, the following was found for
 $\Phi = 7^\circ, d\sigma/d\Omega = (1.100 \pm 0.055) \cdot 10^{-24} \text{ cm}^2/\text{steradian}$, for
 $\Phi = 10^\circ, d\sigma/d\Omega = (0.074 \pm 0.006) \cdot 10^{-24} \text{ cm}^2/\text{steradian}$. Figure 2 shows these
results. In Fig. 2 of the diagram, and gives a detailed description
of the experimental data carried out as well as a great number of
experimental data concerning the angular distributions and
energy spectra of secondary particles (mainly protons with
energies of 22-60 Mev) emitted at angles of 7°, 10°, 24°
and 30° in reactions between 660 Mev protons and nuclei of
Be, C, Cu and U. Table 3 gives for all 4 elements the $d\sigma/d\Omega$
measured for 8 different emission angles between 7° and 40°.

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At about 500 Mev, the minima are distinctly observable
at about 200 Mev in the case of U at about 500 Mev, at 300 Mev this
development is more marked; the maxima are flat and are at
about 400 Mev. Cu and U have very high ordinate values at low
energies, which decrease to a minimum at about 300 Mev, after
which they again increase sharply and again decrease sharply
towards zero with increasing energies. In general, the protons
sections for the emission of such secondary particles increase
with a decrease of the angle. Peaking from high to low energies,
the spectral regions of the investigated elements correspond.
The diffraction scattering of protons on nuclei (small-angle
scattering) is due to the production of pion exchange, pion
production on bound nucleons, and intranuclear cascade processes.
respectively. In chapter 3 of this paper the authors compare
the experimental energy spectra for quasi-elastic protonic
inelastic scattering with the calculated spectra (in momentum
approximation under various assumptions with respect to the
momentum distributions of the nucleons in the nucleus) (Fig.
8 and 9). In the case of p-Be- and p-C-scattering agreement is
found (between experiment and theory) when using a Gaussian
momentum distribution having a $1/\sigma$ -value at about 20 Mev, which
is in keeping with the results obtained in Berkeley. The authors
finally thank R. M. Fedorova and I. V. Popov for preparing
and carrying out calculations and further also S. M. Balakin,
N. P. Klimkov, L. M. Soroko, and N. A. Chernikov for valuable
discussions. There are 9 figures, 3 tables, and 25 references,
6 of which are Soviet.

Card 3/4

ASSOCIATION: Ob"ezhdennyy institut Yadernykh issledovaniy (Joint Institute
of Nuclear Research)

SUBMITTED: December 20, 1958

Card 4/4

Shabudin; A.P.

703. ENERGY SPECTRUM OF π^+ -MESONS FOR THE
 $pp \rightarrow np\pi^+$ REACTION AT 556 AND 657 MeV.
M.G. Meshcheryakov, V.P. Zrelov, B.S. Negazov, I.K. Vzorov
and A.P. Shabudin.
Zh. disper. i opt. fiz., Vol. 31, No. 1(7), 45-54 (1958). In
Russian.

The π^+ -spectrum of the $pp \rightarrow np\pi^+$ reaction has been measured for collision energies of 556 and 657 MeV at an angle of 24° with respect to the proton beam by the magnetic analysis method. In the centre-of-mass system the ratio of the differential cross-sections for the reaction $pp \rightarrow np\pi^+$ and an angle of 45° is $(d\sigma/d\omega)_{45^\circ} : (d\sigma/d\omega)_{24^\circ} = 2.2 : 1$. On the average, at any of the two collision energies, about 80% of the available energy is expended in production of a π^+ -meson in a single elementary $pp \rightarrow np\pi^+$ reaction. A comparison is made of the measured spectra and the energy distributions corresponding to the statistical weights of the final states computed on the assumption of direct formation of the mesons; it was found that in the low energy region of the π^+ -spectra the matrix element relating the initial and final states of the $pp \rightarrow np\pi^+$ reaction linearly increases with the meson momentum and at a given value of the momentum its magnitude is approximately the same for either of the two collision energies.

SHABUNIN, A. S., KAPLIN, V. P., and POZDNIKOV, V. N.

"On the Possibility of Automatic Separation of Potato Tubers
From Lumps of Soil in Potato Harvesting Machines"

paper presented at the All-Union Seminar on the "Application of
Radioactive Isotopes in Measurements and Instrument Building,
Frunze (Kirgiz SSR), June 1961)

So: Atomnaya Energiya, Vol 11, No 5, Nov 61, pp 468-470

SHABUNIN, A.V. (Kandalaksha)

Mechanism, clinical aspects and treatment of Bennett's
fractures. Ortop., travm. i protez. 25 no.11:52-54 N '64.
(MIRA 18:11)

1. Submitted April 7, 1964.

SHABUNIN, A.V., kapitan meditsinskoy sluzhby

Experience in surgical duties at a medical aid station. Voen.-
med. zhur. no.3:73-74 Mr '61. (MIRA 14:7)
(SURGERY, MILITARY)

SEABURGH, A.V.

Differential diagnosis of renal colic and intestinal obstruction.
Trudy Vor. med. inst. 52:159-162. '63.

(MIRA 18:3)

SIMBUKSYIY, I.

Soviet experiences in building underground heat-power pipeline systems and the possibility of using these experiences in our construction.

(To be contd) p. 16 (Prague. Statni ustav pro projektovani energetickych zavodu a zarizeni. Technicke Zpravy. No. 3, 1956, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,
February 1956

SHABUNEVSKII, L.

TECHNOLOGY

periodicals: INSENYRSKE STAVBY Vol. 6, no. 11, Nov. 1957

SHABUNEVSKII, L. Assembled reinforced-concrete structures for metallurgical plants in the USSR. Tr. from the Russian. p. 599.

Monthly List of East European Accessions (EHA) LC Vol. 8, no. 5
May 1959, Unclass.

SHABUNIN, M. I.

One generalization of Taylor's series. Trudy MFTI no.1:190-196 ' 58.
(MIRA 12:1)

(Series, Taylor's)

LIDSKIY, Viktor Borisovich; OVSYANNIKOV, Lev Vasil'yevich; TULAYKOV,
Anatoliy Nikolayevich; SHABUNIN, Mikhail Ivanovich. Prinimali
uchastiye: ABRAMOV, A.A.; BOCHEK, I.A.; YEVGRAFOV, M.A.; ZYKOV,
A.A.; KARABEGOV, V.I.; KARIMOVA, Kh.Kh.; KUDRYAVTSEV, L.D.;
KUTASOV, A.D.; SHURA-BURA, M.R.; SHCHEGLOV, M.P. SOLODKOV,
V.A., red.; KRYUCHKOVA, V.N., tekhn.red.

[Problems in elementary mathematics] Zadachi po elementarnoi
matematike. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1960. 463 p.
(MIRA 14:1)

(Mathematics--Problems, exercises, etc.)

LIDSKIY, Viktor Borisovich; OVSYANNIKOV, Lev Vasil'yevich; TULAYKOV,
Anatoliy Nikolayevich; SHABUNIN, Mikhail Ivanovich; SOLODKOV,
V.A., red.; KRYUCHKOVA, V.N., tekhn. red.

[Problems in elementary mathematics] Zadachi po elementarnoi
matematike. Izd.2., stereotipnoe. Moskva, Gos. izd-vo
fiziko-matem. lit-ry, 1962. 463 p. (MIRA 15:3)
(Mathematics—Problems, exercises, etc.)

SHABUNIN, M.I.

Determining the class of convergence of an interpolation series
for Abel-Goncharov's and Gel'fond's problems. Dokl. AN SSSR 149
no.2:272-275 Mr '63. (MIRA 16:3)

1. Predstavleno akademikom I.M.Vinogradovym.
(Functions, Entire) (Interpolation)

SHABUNIN, M.I.

Asymptotic evaluation of the coefficients of expansion in certain
systems of analytic functions. Sib. mat. zhur. 4 no.2:446-456
Mr-Ap '63. (MIRA 16:3)
(Series) (Functions, Analytic)

LIDSKIY, Viktor Borisovich; OVSYANNIKOV, Lev Vasil'yevich; TULAYKOV,
Anatoliy Nikolayevich; SHABUNIN, Mikhail Ivanovich; BAYEVA,
A.P., red.; KRYUCHKOVA, V.N., tekhn. red.

[Problems in elementary mathematics] Zadachi po elementarnoi
matematike. Izd.3., ispr. i dop. Moskva, Fizmatgiz, 1963.
415 p. (MIRA 17:2)

Shchelkin, A. A.

SHCHELNIN, A. A.: "The effect of static forces on the conditioned and unconditioned vascular reflexes in man". Sverdlovsk, 1955. Sverdlovsk State Medical Inst. (Dissertation for the Degree of Candidate of Medical Sciences)

SG: 'Knizhnaya Letopis', No. 40, 1 Oct 55

SHABUNIN, R.A.

Effect of static work on the redistribution of blood in a normal human subject. Biul.eksp.biol.i med. 48 no.9:10-15 S '59.

(MIRA 13:1)

1. Iz kafedry normal'noy fiziologii (zaveduyushchiy - prof. N.K. Vereshchagin) Sverdlovskogo meditsinskogo instituta. Predstavlena deystvitel'niy chlenom AMN SSSR V.V. Parinym.

(VASOMOTOR SYSTEM physiol.)

(EXERTION eff.)

SHABUNIN, R.A.

Changes in vascular temperature reflexes during muscular activity
of a static nature. Fiziol. zhur. 46 no.10:1173-1180 O '60.
(MIRA 13:11)

1. Kafedra normal'noy fiziologii Meditsinskogo instituta, Sverdlovsk.
(NERVOUS SYSTEM, VASOMOTOR) (EXERCISE)
(TEMPERATURE-PHYSIOLOGICAL EFFECT)

SKRYABIN, V. V.; SHABUNIN, R. A.; DOBRONRAVOV, S. N. (Sverdlovsk)

Characteristics of the function of the cardiovascular system under
static stress. Gig. truda i prof. zab. no.1:39-45 '62.
(MIRA 15:2)

1. Sverdlovskiy meditsinskiy institut.

(CARDIOVASCULAR SYSTEM) (STRESS(PHYSIOLOGY))

SHABUNIN, R.A. [Shabunin, R.O.]

Lynamics of the course of a vascular unconditioned reflex to cold in man during the training for static muscular exercises.
Fiziol. zhur. [Ukr.] 9 no.4:451-457 Jl-Ag '63.

(MIRA 17:10)

1. Department of Normal Physiology of Sverdlov Medical Institute.

Electrolytic polishing of consumer goods. V. G. Shabu-
nin. *Vestnik Mashinostroyeniya*, 36, No. 8, 60-2 (1960).
Polishing practice is described. Polishing steel articles in
a soln. of H_3PO_4 40, H_2SO_4 40, and H_2O 17 parts requires a
partial conversion of Cr(IV) to Cr(III) which is done by ap-
plying to it 15-20 amp.hrs./l. of soln. J. D. Cat.

GUDEMCHUK, V.A. [deceased], kand.tekhn.nauk; SHABUNIN, Ye.M., inzh.
KRASOVITSKIY, Yu.V., inzh.; BARKINA, L.A., inzh.

Selecting a method of sanitary purification of open-hearth
furnace waste gases. Metallurg 5 no. 12:21-23 D '60.

(MIRA 13:11)

1. Zavod "Serp i molot" i Gosudarstvennyy nauchno-issledovatel'skiy
institut promyshlennoy i sanitarnoy ochistki gazov.
(Open-hearth furnaces) (Gas purification)

BOGOYAVLENSKIY, M.S.; VASHCHENKO, A.I.; DENISOV, A.N.; ZHETVIN, A.N.; ZEN'KOVSKYIY, A.G.; MAKAROV, D.M.; MAKSIMOV, B.M.; FILATCVA, A.I.; SHABUNIN, Ye.M.

Oxidation and decarburizing of certain steels in duo-muffle furnaces of nonoxidizing heating. Stal' 23 no.12:1124-1126 D '63. (MIRA 17:2)

VESELOV, S.I.; GUSHCHINA, N.; MAKUSHKIN, L.G.; RULINA, L.B.; CHICHILO, I.K.;
SHABUIN, Ye.M.; CHILIKIN, M.G., prof.; YUSHKOV, S.B.; GOSIS, I.N.;
RYABTSEV, N.I.; KRUPOVICH, V.I.; PETROV, N.I.: PATARUYEV, A.D.;
BEYRAKH, Z. Ya., doktor tekhn. nauk

Twenty-first anniversary of the publication "Promyshlennaya
energetika". Prom. energ. 21 no. 1:5-7 Ja '66 (MIRA 19:1)

1. Nachal'nik Gosudarstvennoy inspeksii po energeticheskому nadzoru Ministerstva energetiki i elektrifikatsii SSSR (for Veselov).
2. Moskovskoye pravleniye nauchno-tehnicheskogo obshchestva energeticheskoy promyshlennosti (for Gushchina).
3. Predsedatel' Sverdlovskogo pravleniya Nauchno-tehnicheskogo obshchestva energeticheskoy promyshlennosti (for Makushkin).
4. Glavnyy energetik Pervogo gosudarstvennogo podshipnikovogo zavoda (for Chichilo).
5. Glavnyy energetik Moskovskogo metalurgicheskogo zavoda "Serp i molot" (for Shabuin).
6. Rektor Moskovskogo energeticheskogo instituta (for Chilikin).
7. Glavnyy inzhener instituta Tyazhpromelektroprojekt (for Krupovich).
8. Glavnyy konstruktor Moskovskogo zavoda teplovoy avtomatiki (for Beyrakh).

SIMONTHA, N. N. --"On the Role of Perennial Grasses in the Crop Yields of Peat-Soil Soils." Acad Sci Belorussian SSR. Inst of Soil Improvement, and the Water and Swamp Economy. Minsk, 1955. (Dissertation for the Degree of Candidate of Agricultural Sciences.)

SO: Knizhnaya letopis', No. 4, Moscow, 1956

J-2

USSR/Soil Science. Biology of Soils.

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24699.

Author : Skoropanov, S.G.; Tulanova, K.S.; Shabunina, M.M.;
Pashina, T.N.

Inst :
Title : On the Fertility of Separate Fields Under Crop
Rotation.

Craig Pub: Tr. Belorussk. n.-i. in-ta melior. i vodn. kh-va,
1956, 7, 182-205.

Abstract: Work was conducted on cultivated peat-bog soils
of the Kossov experimental station. In the opinion
of the authors, the basic indices of the fertility
of soils are their biological properties and the
content of their nutrient substances. The maximum
quantity of microorganisms, up to 8.7-16 million

Card : 1/3

USSR/Soil Science. Biology of Soils.

J-2

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24699.

in 1 g, is observed in soils under potatoes, and the minimum (2.1-4.3 million in 1 g) - under 4 year timothy-grass. After the gathering of potatoes, the quantity of the microorganisms in the soil sharply diminished. Mobile forms of the organic substance in the soil are subject to significant changes. -humates have shown themselves to be the most dynamic; the maximal quantity of them is found in the spring, under perennial grasses. The quantity of -humates diminishes in proportion to the increase of the period during which the soil is under annual crops. Maximal quantities of nitrate N, found in spring in soils under potatoes and hemp, diminish toward the end of their vegetative season. The maximal quantity K - 0.38 - 0.55%.

Card : 2/3

3

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24699.

was observed in soil under hemp. The content of P₂O₅ fluctuated in the fields from 1.3 to 0.5, with the minimum quantity under perennial grasses.

Card : 3/3

SKOROPANOV, S.G.; SHABUNINA, M.M.; LUPINOVICH, I.S., akademik, redaktor;

BARMICHEV, V., redaktor izdatel'stva; ALEKSANDROVICH, Kh., tekhredaktor

[Importance of farming perennial grasses in bog soils]

Agrotekhnicheskaja rol' mnogoletnikh trav na torfiano-bolotnykh pochvakh. Minsk, Izd-vo Akad. nauk BSSR, 1957. 114 p.

(MIRA 10:5)

1. Akademiya nauk BSSR. (for Lupinovich)
(Peat soils) (Grasses)

USSR / Soil Science. Tillage. Reclamation. Erosion.
Abs Jour: Ref Zhur-Biol., No 2, 1959, 6105.

J

Author : Shabunina.
Inst : Not given.
Title : Processing the Perennial Grass Layer on Peat-
Bog Soils.

Orig Pub: Sel'sk. gospadarka Belarusi, 1957, No 7, 15.

Abstract: No abstract.

Card 1/1

SHABUNINA T.A.

✓ 9.1-212

Bagrov, N. A. and Shabunina, T. A. Izmenchivost' srednikh mezhchnykh temperatur na territorii Svernoi Evrazii. [Variability of the mean monthly temperatures over northern Eurasia.] Moscow: Tsentraldost. Institut Prognozov, Trudy, 45(73):53-63, 1959. 8 fig., 4 tables, 6 refs. DLC—In this statistical study, the author discusses the square deviations of the mean monthly temperatures, the annual variations of the mean square deviation for the temperature of Moscow, Irkutsk, etc., the distribution of mean monthly temperature, the probability of deviation of mean monthly temperature from the normal, within particular limits. Subject Headings: 1. Mean monthly temperatures. 2. Temperature—variability.

3. Northern Eurasia.—J.L.D.

551.526.3

Card 111

✓

SHABUNINA, T. A.

Movement of high cyclones. Trudy TSIP no. 119:70-77 '62.
(MIRA 16:1)

(Cyclones)

RAFAILOVA, Kh. Kh.; TOKUNOVA, A. I.; FEDULOVA, M. N.; SHABUNINA, T. A.

Some results of an operative check of the accuracy of experimental forecasts of fields of pressure for each of three days.
Trudy TSIP no.119:98-103 '62. (MIRA 16:1)

(Atmospheric pressure)

SHABUNINA, V.

Growth in the number of engineers and technicians in the industry
of the Bulgarian People's Republic. Biul. nauch. inform.: trud
i zar. plata 5 no.5:59-60 '62. (MIRA 15:7)
(Bulgaria--Technicians in industry).

SHABUNINA, V.I.; GERTSOVICH, G.B., kand.ekon.nauk, red.; KARYAGIN, I.D.,
kand.ekon.nauk, red.

[Economic development of the People's Republic of Bulgaria;
brief economic review] Razvitiye ekonomiki Narodnoi Respubliki
Bulgarii; kratkii ekonomicheskii obzor. Moskva, Akad.nauk
SSSR, 1959. 88 p. (MIRA 12:9)
(Bulgaria--Economic conditions)

SHABUNINA, V. I.

Reorganization of the administration of the national economy in
the Bulgarian People's Republic. Vop.ekon. no.5:137-141
May '59. (MIRA 12:9)

(Bulgaria--Economic policy)

VASIL'TSOV, V.D.; VOLCHENKO, M.Ya.; GERTSOVICH, G.B., kand.ekon. nauk;
ZHARKOV, Ye.I.; KONOVALOV, Ye.A., kand. ekon. nauk; MATVIYEVSKAYA,
E.D.; OLEYNIK, I.P., kand. ekon. nauk; RAYEVSKAYA, E.S.,;
SKVORTSOVA, A.I.; SOKOLOVA, N.V.; SOTNIKOVA, I.A.; TANDIT, V.S.;
TRIGUBENKO, M.Ye.; FIRSOVA, Yu.V.; SHABUNINA, V.I.; YUMIN, M.N.;
STOROZHEV, V.I., kand. istor. nauk, red.; LEPNIKOVA, Ye., red.;
SIRNOV, G., tekhn. red.

[Economy of the people's democracies in figures for 1960] Ekonomika stran sotsialisticheskogo lageria v tsifrah 1960 g. Pod red. G.B.Gertsovicha, I.P.Oleinika, V.I.Storozheva. Moskva, Izdvo sotsial'-no-ekon. lit-ry, 1961. 238 p. (MIRA 15:4)
(Communist countries—Economic conditions)

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